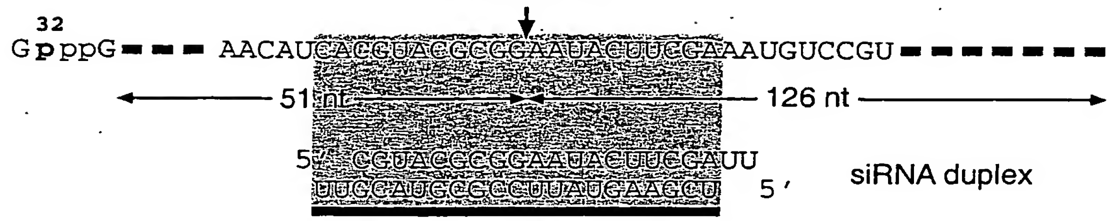
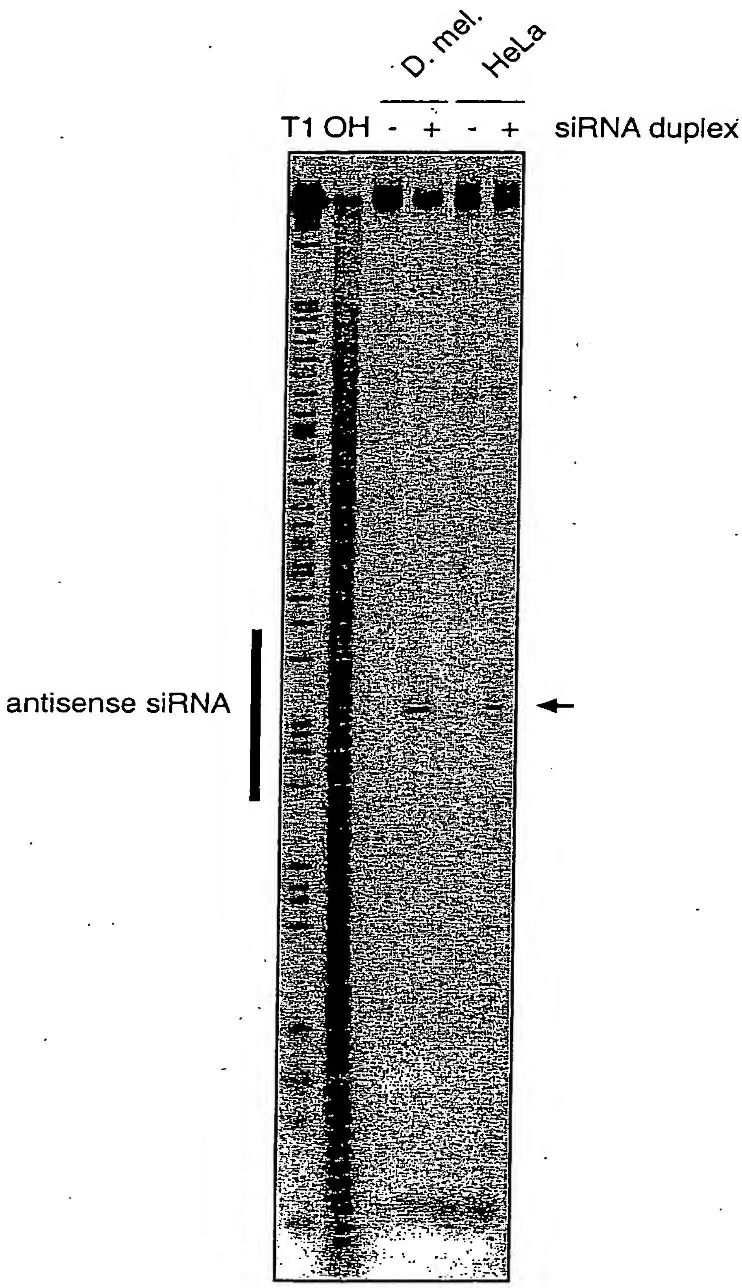
Martinez et al. Figure 1

A

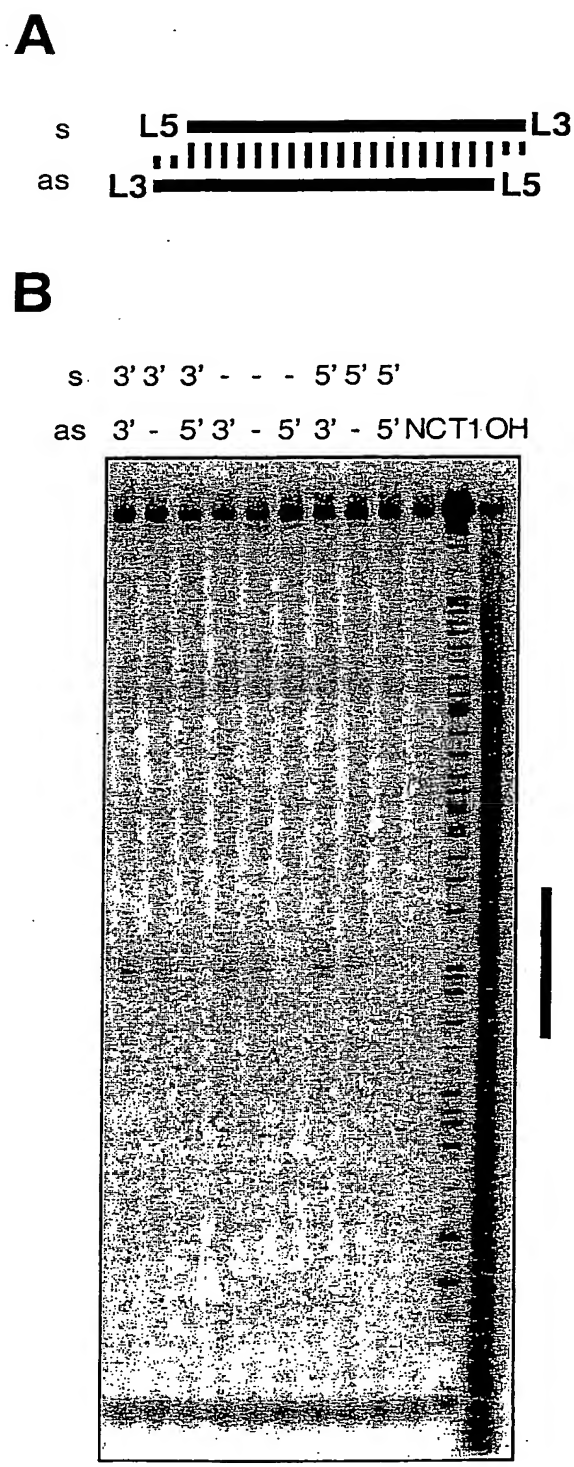


B



BEST AVAILABLE COPY

Martinez et al. Figure 2

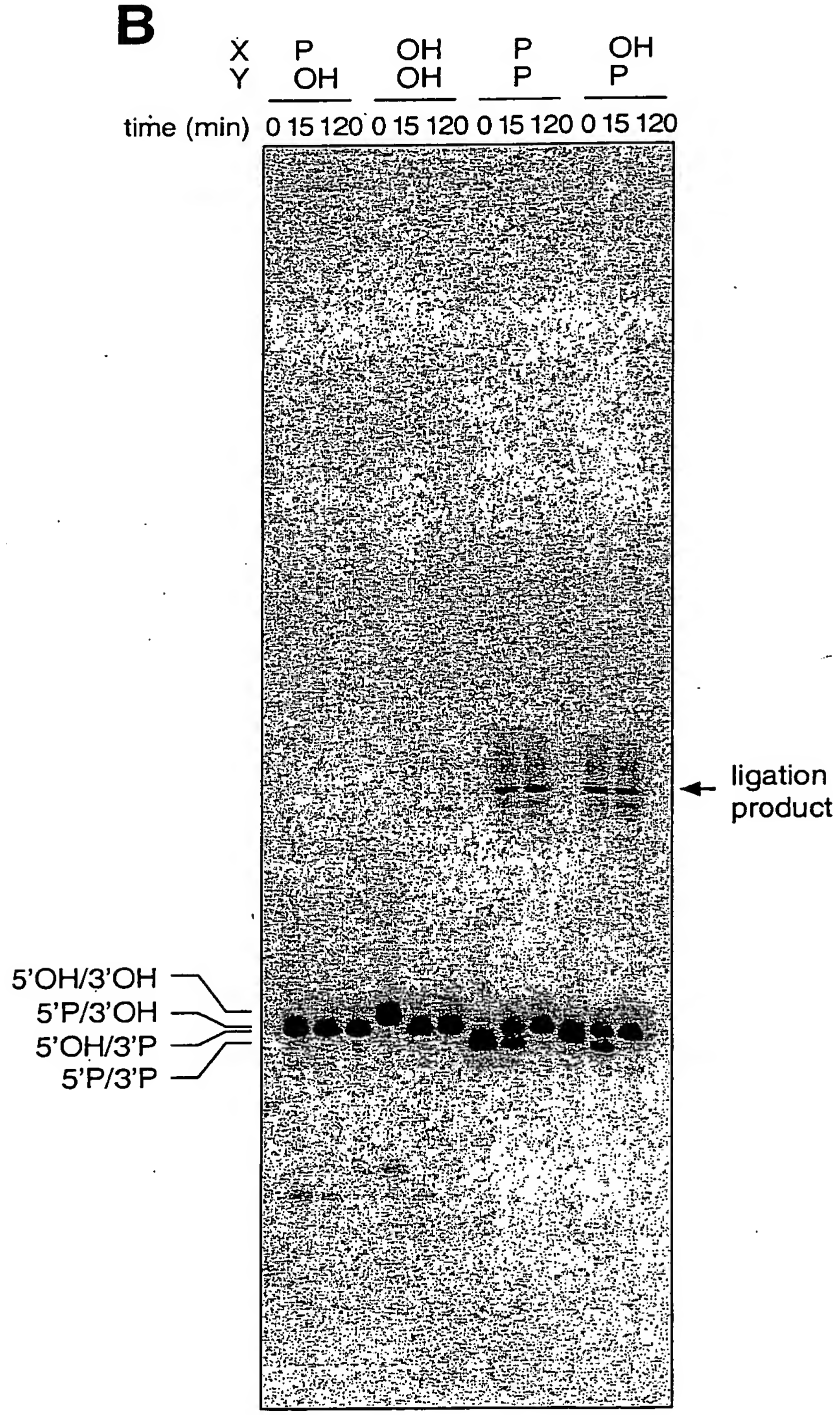


Martinez et al. Figure 3

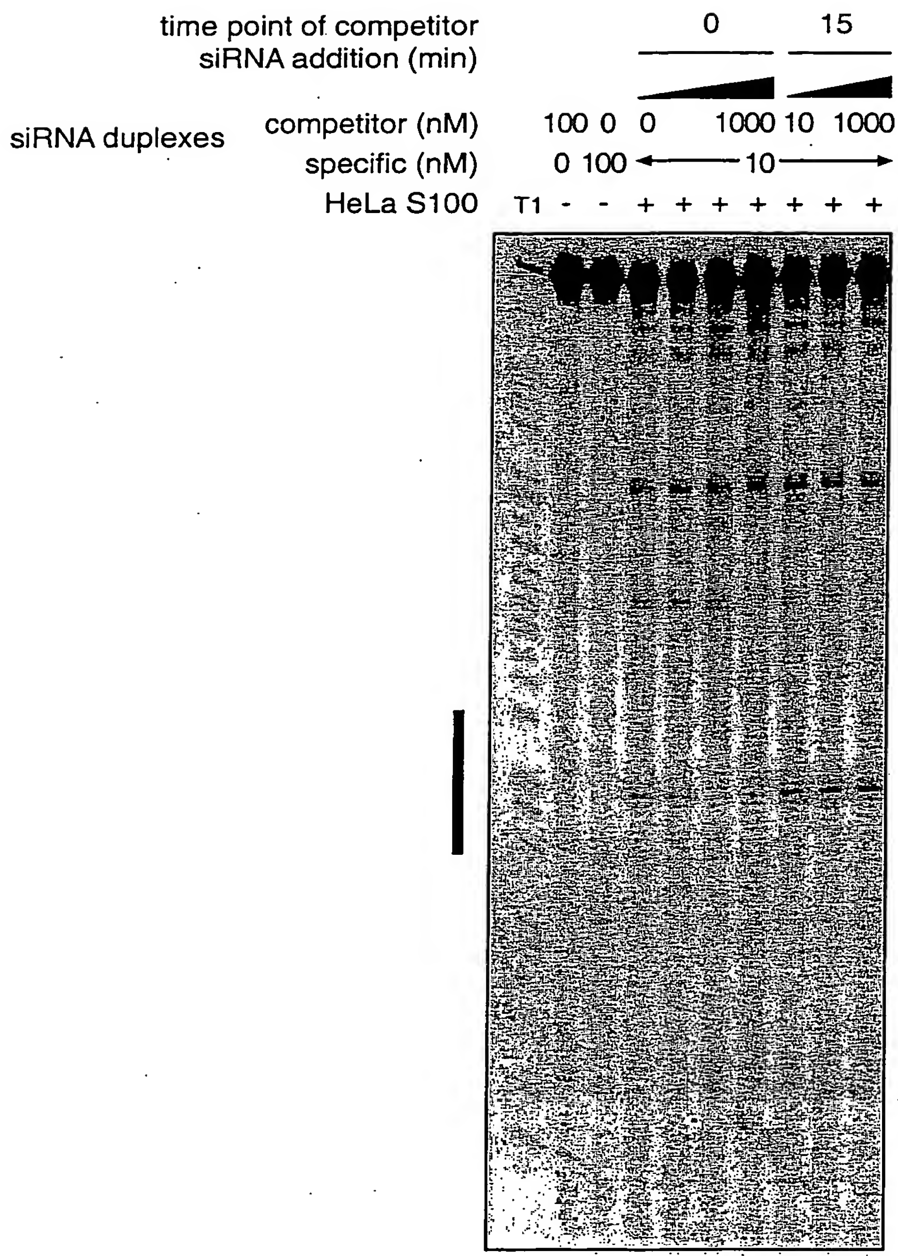
A

$_{HO}$CGUACGCGGAAUACUUCGAAA$_{OH}$ 3′
Y–C$\underset{32}{\mathbf{p}}$UGCAUGCGCCUUAUGAAGCU–**X** 5′

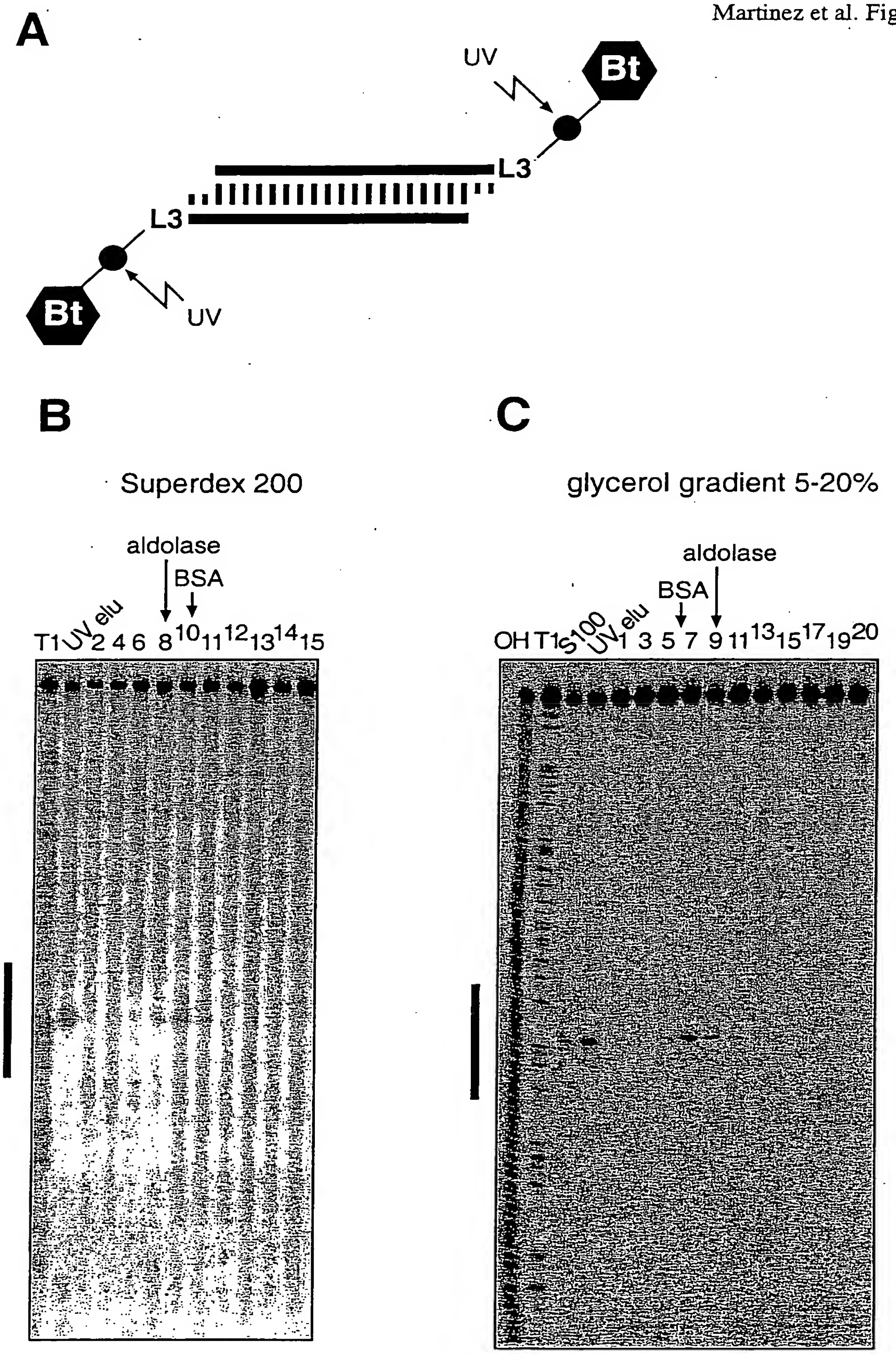
B



Martinez et al. Figure 4

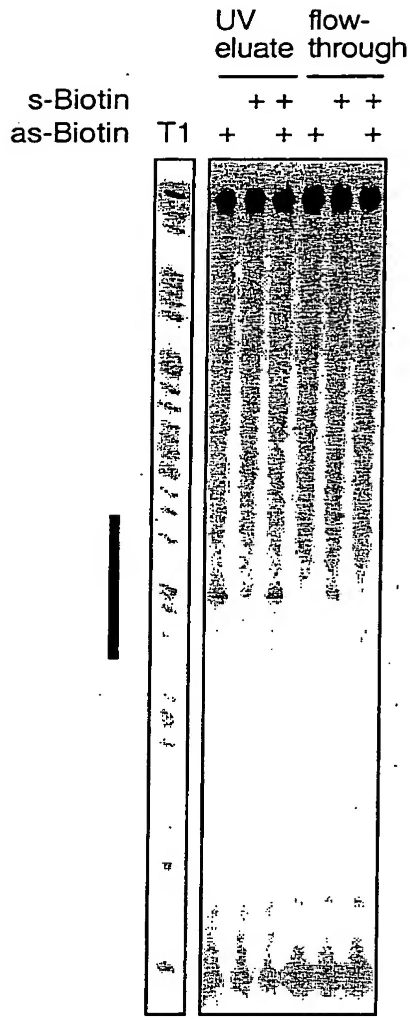


Martinez et al. Figure 5

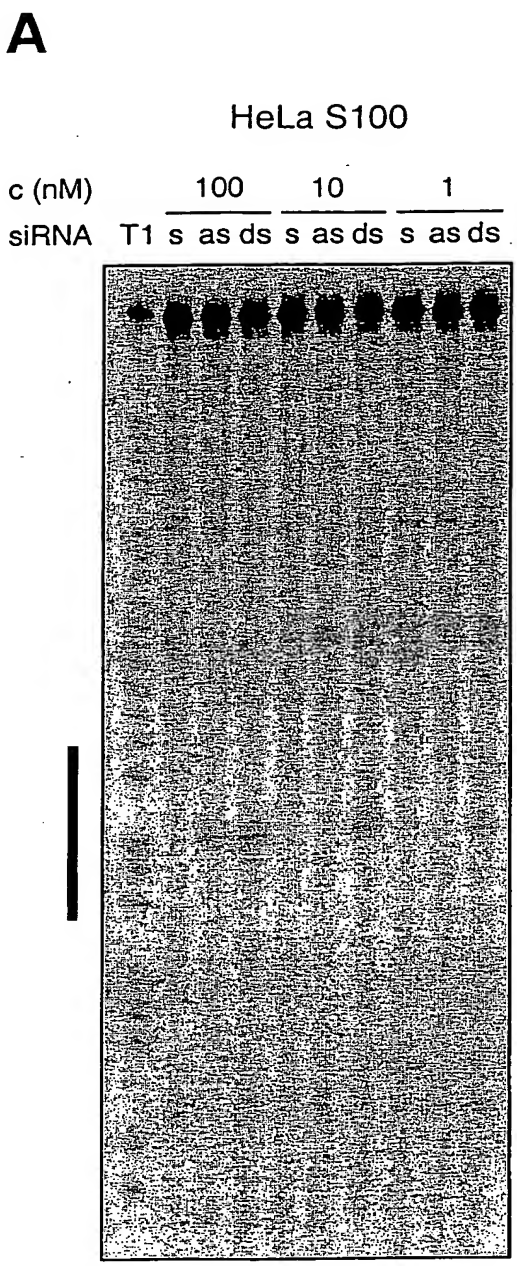


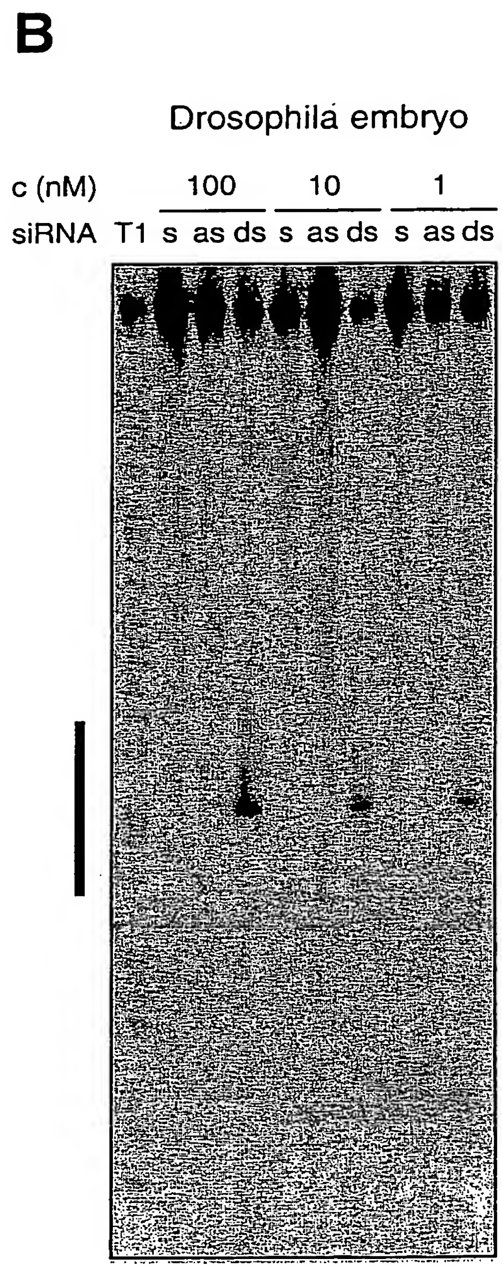
10/520470

Martinez et al. Figure 6



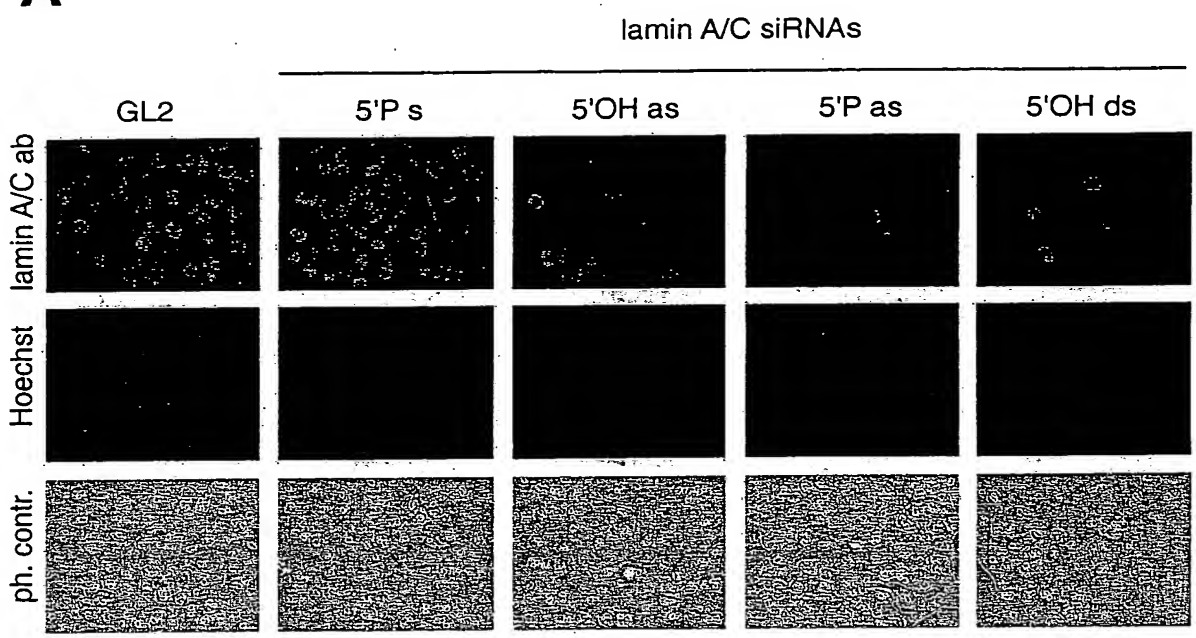
Martinez et al. Figure 7





Martinez et al. Figure 8

A



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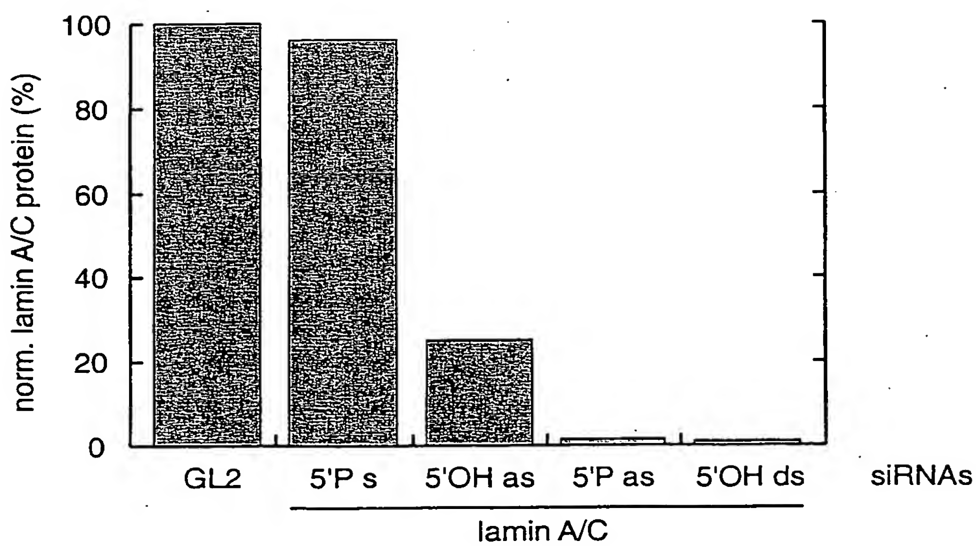
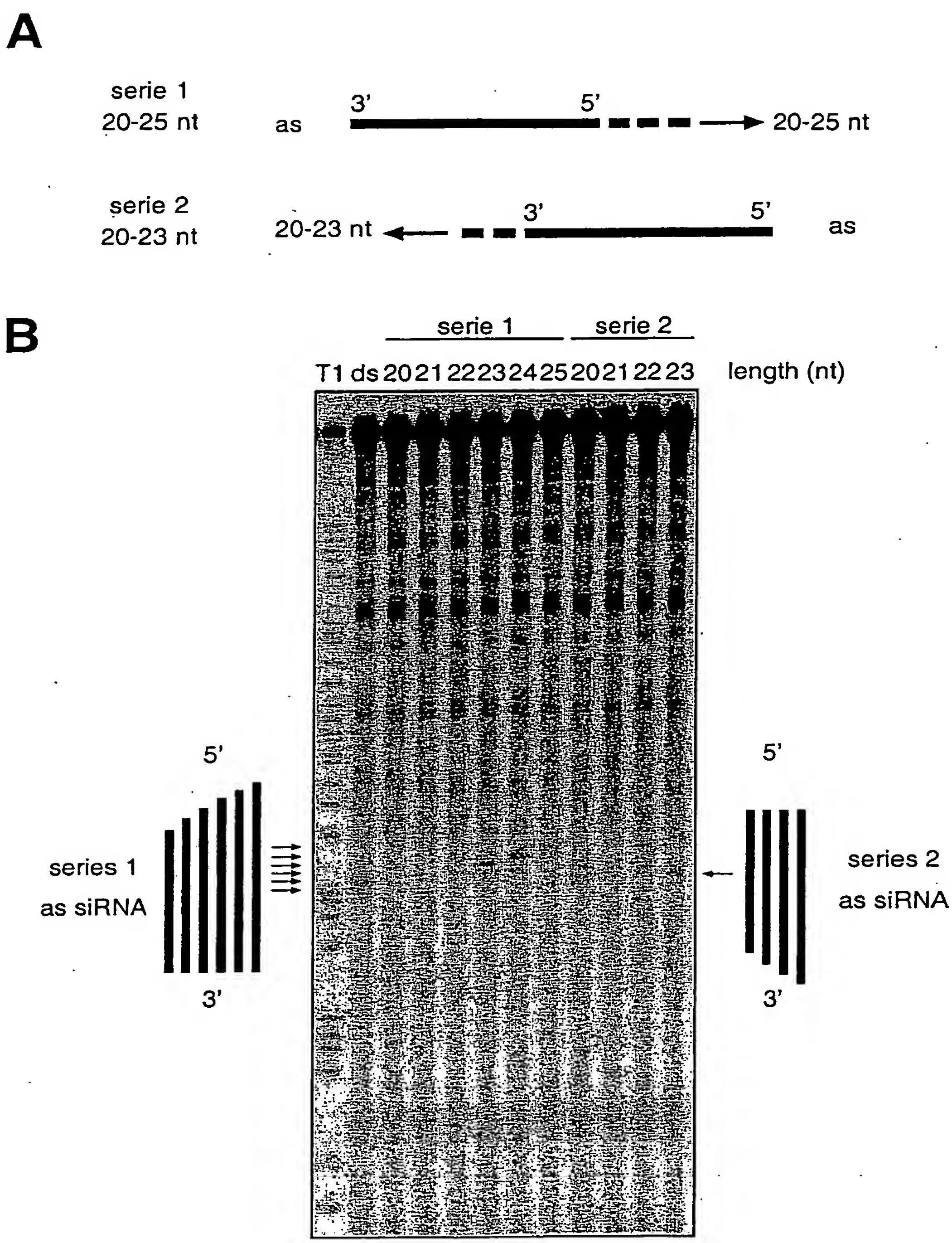
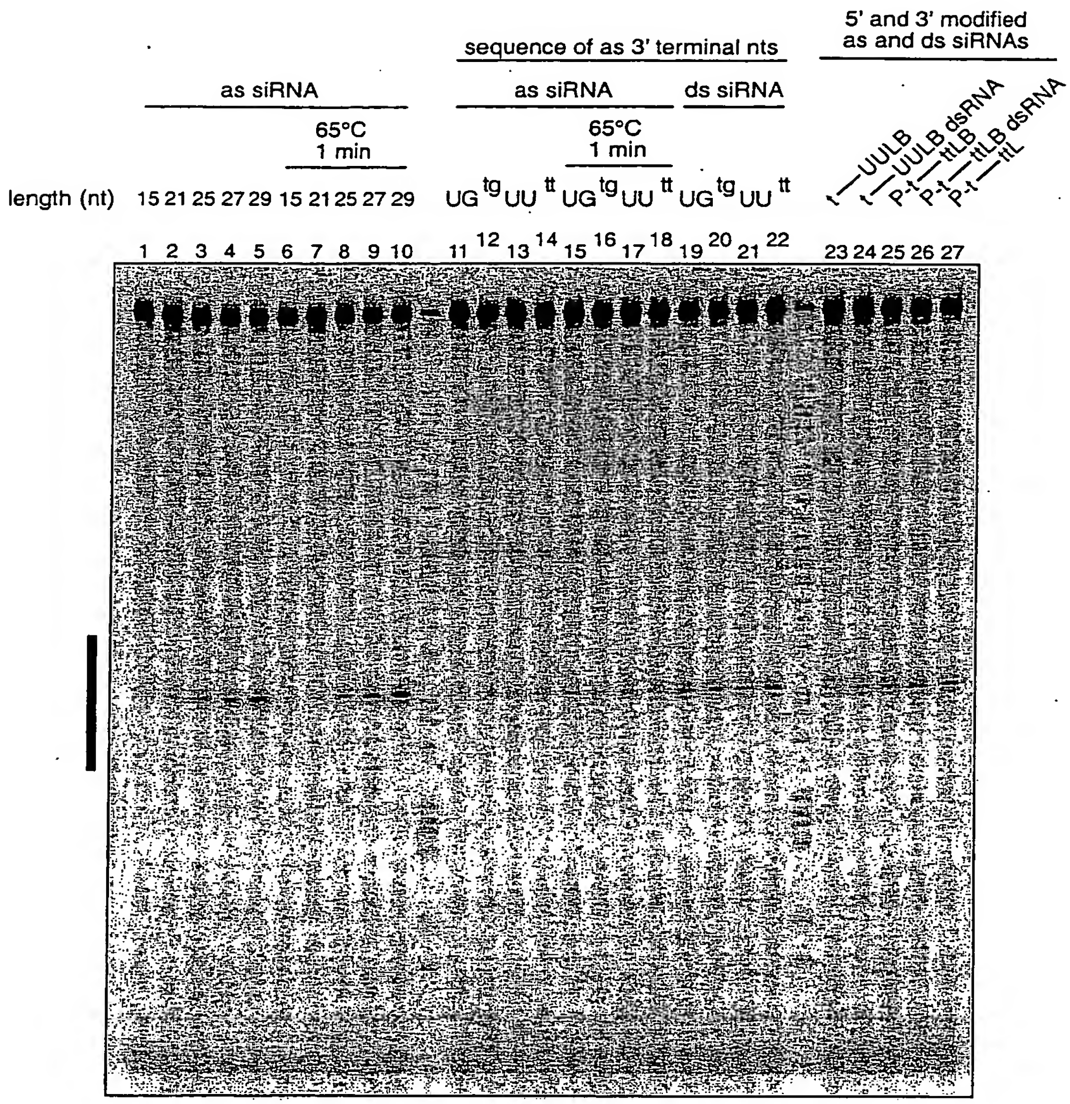


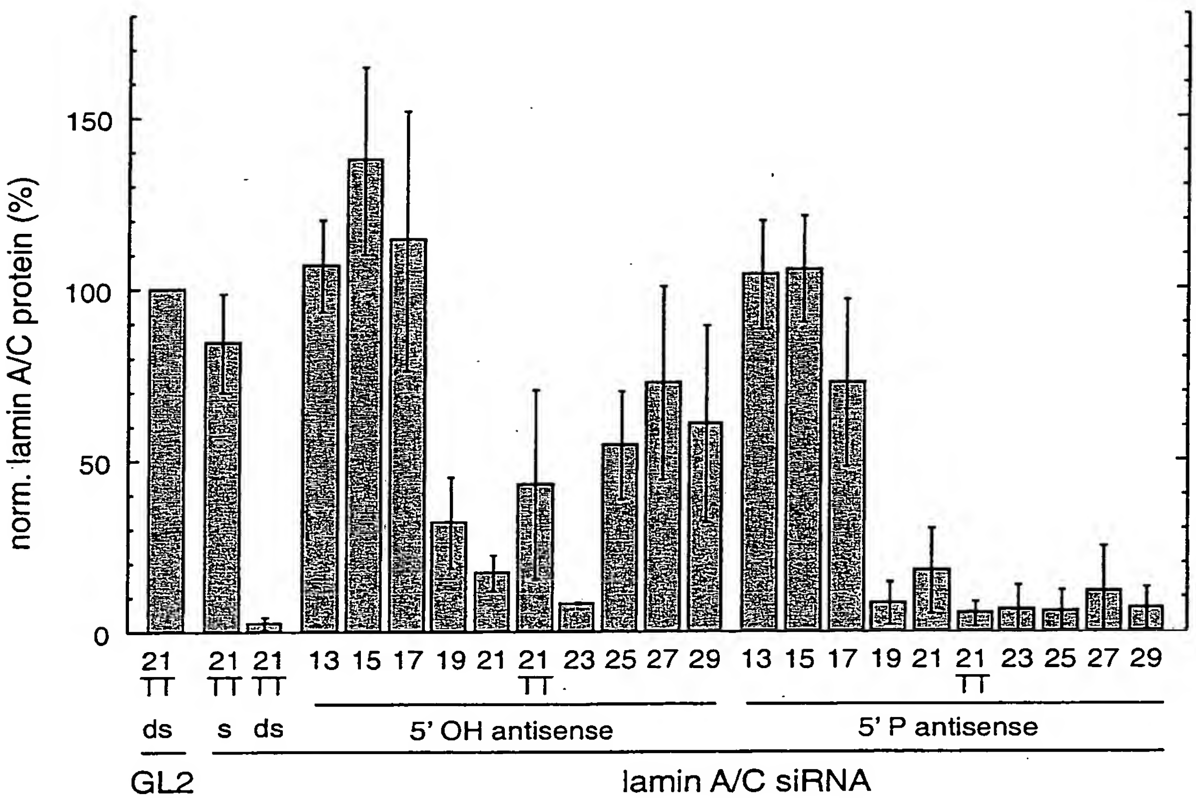
Martinez et al., Figure 9



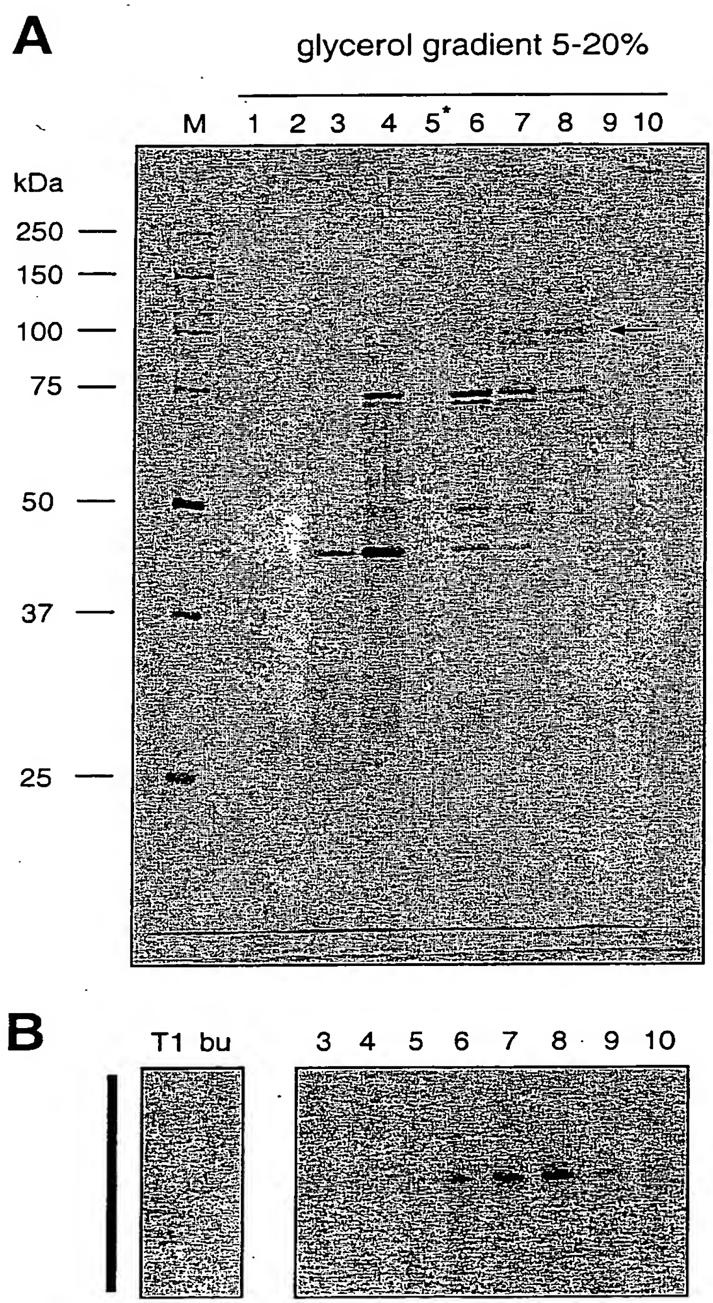
Martinez et al., Figure 10



Martinez et al. Figure 11

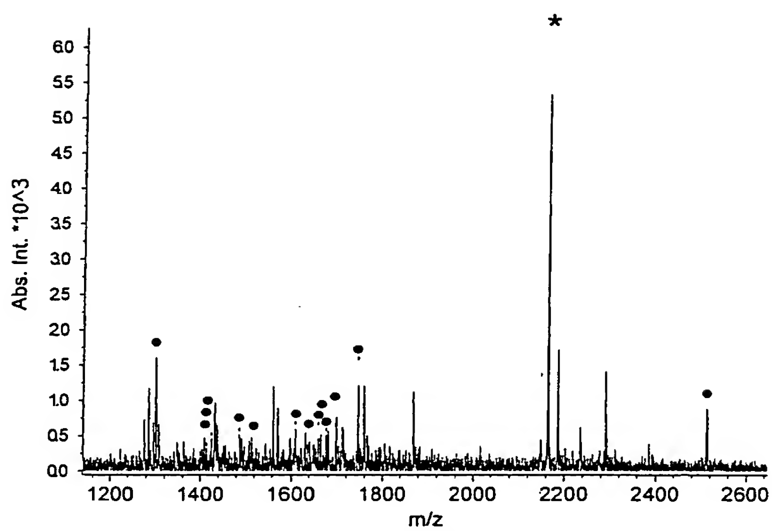


Martinez et al. Figure 12



Martinez et al. Figure 13 A

A

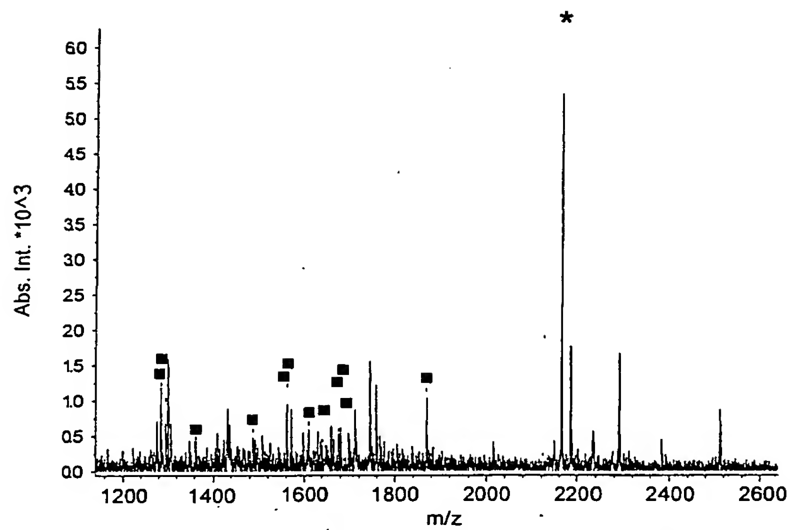


eukaryotic translation initiation factor 2C2

Observed	Mr(expt)	Mr(calc)	Delta	Position	Miss	Peptide
1299.67	1298.67	1298.73	-0.07	413 - 424	0	VLQPPSILYGGR
1402.64	1401.64	1401.74	-0.10	637 - 648	0	QEIIQDLAAMVR Oxidation(M)
1413.62	1412.61	1412.73	-0.12	169 - 180	1	HLPSMRYTPVGR
1423.60	1422.59	1422.71	-0.12	356 - 367	1	KLTDNQTSTMIR Oxidation(M)
1486.56	1485.56	1485.66	-0.10	495 - 507	0	YAQGADSVEPMFR Oxidation(M)
1513.71	1512.70	1512.80	-0.10	112 - 125	1	DKVELEVTLPGEGK
1608.67	1607.66	1607.69	-0.03	481 - 494	0	DAGMPIQGQPCFCK
1635.84	1634.83	1634.85	-0.02	85 - 98	1	TQIFGDRKPVFDGR
1658.85	1657.85	1657.84	0.01	368 - 382	2	ATARSAPDRQEEISK
1663.85	1662.85	1662.91	-0.06	698 - 711	1	DYQPGITFIVVQKR
1675.79	1674.78	1674.84	-0.06	372 - 385	2	SAPDRQEEISKLMR Oxidation(M)
1696.77	1695.76	1695.84	-0.08	323 - 336	0	YPHLPCLQVGQEQK
1743.75	1742.74	1742.77	-0.03	181 - 197	0	SFFTASEGCSNPLGGGR
2511.07	2510.06	2510.12	-0.05	816 - 838	1	YHLVDKEHDSAEGSHTSGQSNGR

Martinez et al. Figure 13 B

B

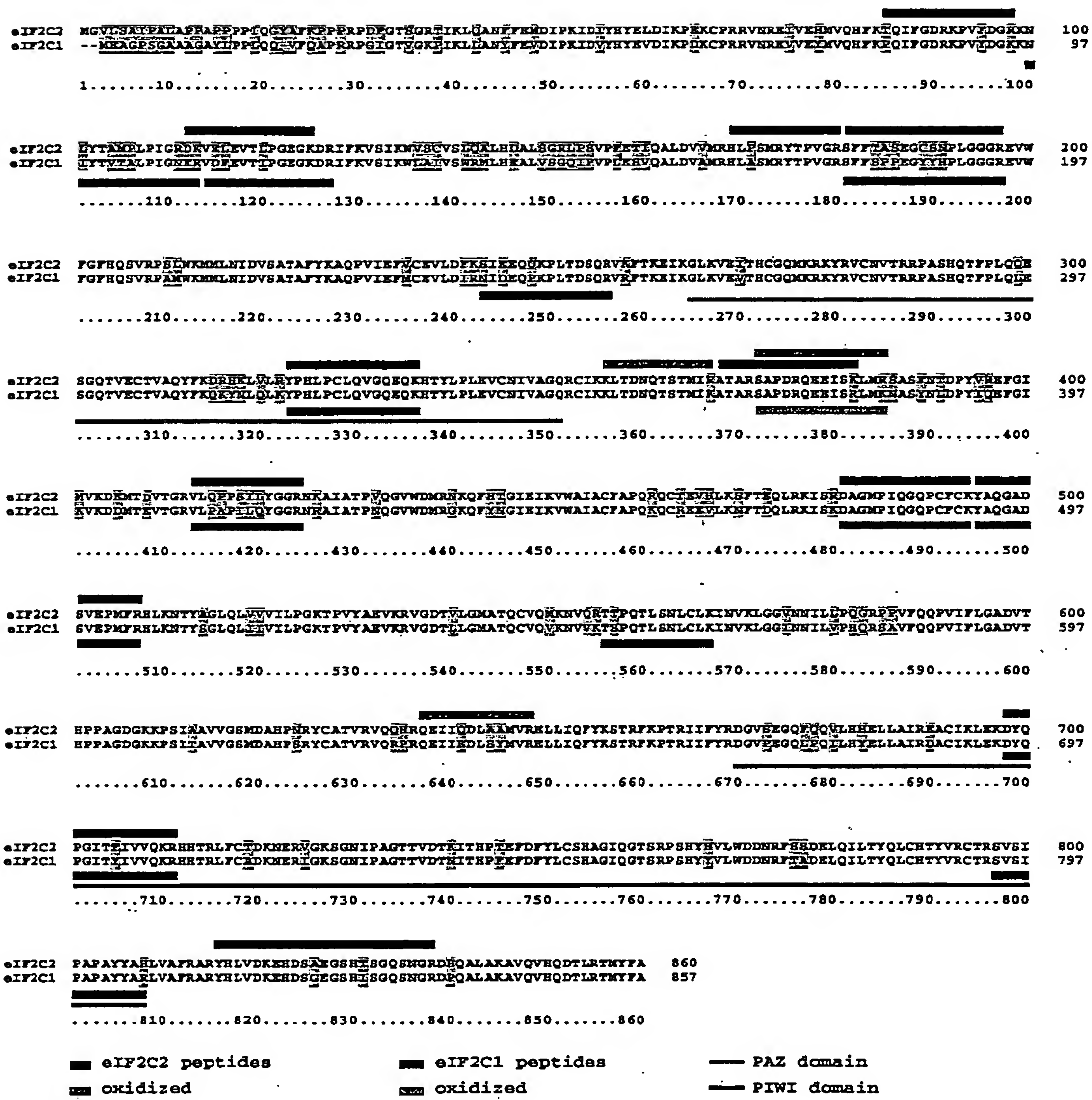


eukaryotic translation initiation factor 2C1

Observed	Mr(expt)	Mr(calc)	Delta	Position	Miss	Peptide
1283.66	1282.65	1282.74	-0.09	410 - 421	0	VLPAPILQYGGR
1294.65	1293.64	1293.67	-0.03	794 - 805	0	SVSIPAPAYYAR
1361.61	1360.60	1360.70	-0.10	553 - 564	0	TSPQTLSNLCLK
1486.56	1485.56	1485.66	-0.10	492 - 504	0	YAQGADSVEPMFR Oxidation(M)
1560.76	1559.75	1559.83	-0.08	97 - 110	0	NIYTVTALPIGNER
1561.76	1560.75	1560.78	-0.02	111 - 124	1	VDFEVTIPGEGKDR
1608.67	1607.66	1607.69	-0.03	478 - 491	0	DAGMPIQGQPCFCK
1640.74	1639.73	1639.82	-0.08	240 - 253	0	NIDEQPKPLTDSQR
1675.79	1674.78	1674.84	-0.06	369 - 382	2	SAPDRQEEISRLMK Oxidation(M)
1679.86	1678.85	1678.90	-0.05	695 - 708	1	DYQPGITYIVVQKR
1696.77	1695.76	1695.84	-0.08	320 - 333	0	YPHLPCLQVGQEQK
1867.85	1866.85	1866.87	-0.02	178 - 194	0	SFFSPPEGYYHPLGGGR

Martinez et al. Figure 13 C

C



Martinez et al. Figure 14

>eIF2C1, predicted protein sequence
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YHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPVIEFMCEVLDIRNIDEQPKPL
TDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQYF
KQKYNLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPD
RQEEISRLMKNASYNLDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGGRNRAIATPNQGVWD
MRGKQFYNGIEIKVWAIACFAPQKQCREEVLKNFTDQLRKISKDAGMPIQGQPCFCKYAQGA
DSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPQTL
SNLCLKINVKLGGINNILVPHQRSAVFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHP
SRYCATVRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYEL
LAIRDACIKLEKDYQPGITYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVDTNITHPFEF
DFYLCSHAGIQGTSRPSHYYVLWDDNRFTADELQILTYQLCHTYVRCTRSVSIPAPAYYARL
VAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYFA

>eIF2C2, predicted protein sequence
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KDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFETIQALDVVMRHLPSMRYTPVGRSFFTAS
EGCSNPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPVIEFVCEVLDFKSIEEQQ
KPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQQESGQTVECTVA
QYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARS
APDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRNKAIATPVQG
VWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISRDAGMPIQGQPCFCKYA
QGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQMKNVQRTTP
QTLSNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMD
AHPNRYCATVRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLH
HELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERVGKSGNIPAGTTVDTKITHP
TEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSIPAPAYY
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>eIF2C3, predicted protein sequence
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REVVDTMVRHFKMQIFGDRQPGYDGKRNMYTAHPLPIGRDRVDMEVTLPGEGKDQTFKVSVQ
WVSVVSLQLLLEALAGHLNEVPDDSVQALDVITRHLPSMRYTPVGRSFFSPPEGYYHPLGGG
REVWFGFHQSVRPAMWNMMLNIDVSATAFYRAQPIIEFMCEVLDIQNINEQTKPLTDSQRVK
FTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQYFKQKYSLQ
LKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISR
LVKSNSMVGGPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVATPNQGVWDMRGKQ
FYAGIEIKVWAVACFAPQKQCREDLLKSFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEP
MFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPQTLSNLCL
KINAKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCA
TVRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIYYRGGVSEGQMKQV
AWPELIAIRKACISLEEDYRPGITYIVVQKRHHTRLFCADKTERVGKSGNVPAGTTVDSTIT
HPSEFDFYLCSHAGIQGTSRPSHYQVLWDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPA
YYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRDPQALAKAVQIHHDTQHTMYFA

Martinez et al. Figure 14

>eIF2C4, predicted protein sequence
AGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVV
DSMVQHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVS
RVSWHLLHEVLTGRTLPEPLELDKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDH
PLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTD
SHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQYFRE
KYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQ
EEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMR
GKQFHTGVEIKMWAIACFATQRQCREEILKGFTDQLRKISKDAGMPIQGQPCFCKYAQGADS
VEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVIKTSPQTLSN
LCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSR
YCATVRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLA
IREACISLEKDYQPGITYIVVQKRHHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDF
YLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVA
FRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA

>HILI, predicted protein sequence
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QLYQYHVTYIPDLASRRLRIALLYSHSELSNKAKAFDGAILFLSQKLEEKVTELSSETQRGE
TIKMTITLKRELPSSSPVCIQVFNIIFRKILKKLSMYQIGRNFYNPSEPMEIPQHKLSLWPG
FAISVSYFERKLLFSADVSYKVLRNETVLEFMTALCQRTGLSCFTQTCEKQLIGLIVLTRYN
NRTYSIDDIDWSVKPTHTFQKRDGTEITYVDYYKQQYDITVSDLNQPMLVSLLKKKRNDNSE
AQLAHLIPELCFLTGLTDQATSDFQLMKAVAEKTRLSPSGRQQRLARLVDNIQRNTNARFEL
ETWGLHFGSQISLTGRIVPSEKILMQDHICQPVSAADWSKDIRTCKILNAQSLNTWLILCSD
RTEYVAESFLNCLRRVAGSMGFNVMCILPSNQKTYYDSIKKYLSSDCPVPSQCVLARTLNKQ
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RWFSRCILQRTMTDVADCLKVFMTGALNKWYKYNHDLPARIIVYRAGVGDGQLKTLIEYEVP
QLLSSVAESSSNTSSRLSVIVVRKKCMPRFFTEMNRTVQNPPLGTVVDSEATRNEWQYDFYL
ISQVACRGTVSPTYYNVIYDDNGLKPDHMQRLTFKLCHLYYNWPGIVSVPAPCQYAHKLTFL
VAQSIHKEPSLELANHLFYL

>HIWI, predicted protein sequence
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QGLQISAGFQELSLAERGGRRRDFHDLGVNTRQNLDHVKESKTGSSGIIVRLSTNHFRLTSR
PQWALYQYHIDYNPLMEARRLRSALLFQHEDLIGKCHAFDGTILFLPKRLQQKVTEVFSKTR
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LRAWNSCNEYMPSRIIVYRDGVGDGQLKTLVNYEVPQFLDCLKSIGRGYNPRLTVIVVKKRV
NTRFFAQSGGRLQNPLPGTVIDVEVTRPEWYDFFIVSQAVRSGSVSPTHYNVIYDNSGLKPD
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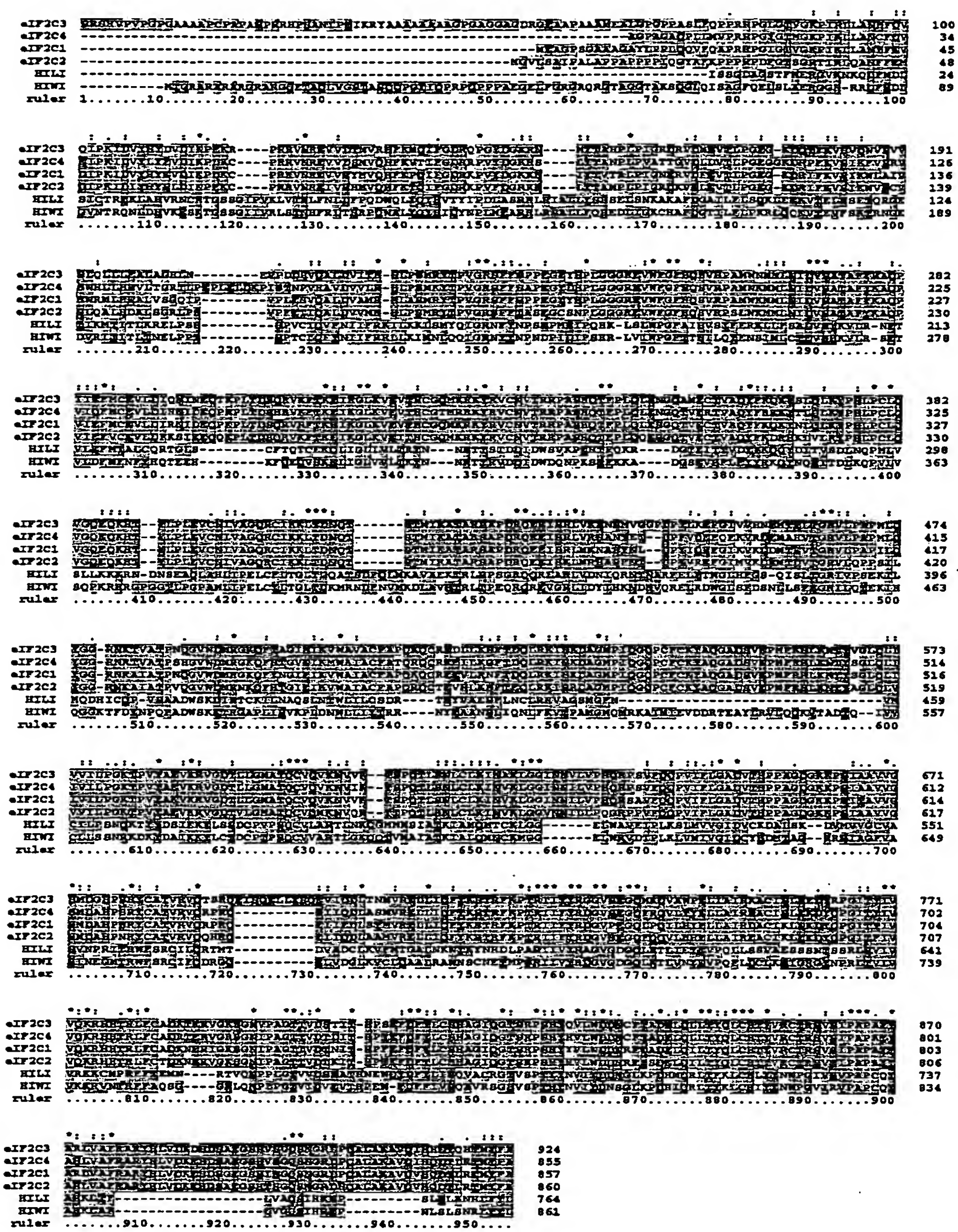
Martinez et al. Figure 15



Martinez et al. Figure 16

>eIF2C1, cDNA sequence of predicted ORF

ATGGAAGCGGGACCCTCGGGAGCAGCTGCGGGCGCTTACCTGCCCCCCCTGCAGCAGGTGTT
CCAGGCACCTCGCCGGCCTGGCATTGGCACTGTGGGGAAACCAATCAAGCTCCTGGCCAATT
ACTTTGAGGTGGACATCCCTAAGATCGACGTGTACCACTACGAGGTGGACATCAAGCCGGAT
AAGTGTCCCCGTAGAGTCAACCGGGAAGTGGTGGAATACATGGTCCAGCATTTCAAGCCTCA
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TACCACCCGCTGGGGGGTGGGCGCGAGGTCTGGTTCGGCTTTCACCAGTCTGTGCGCCCTGC
CATGTGGAAGATGATGCTCAACATTGATGTCTCAGCCACTGCCTTTTATAAGGCACAGCCAG
TGATTGAGTTCATGTGTGAGGTGCTGGACATCAGGAACATAGATGAGCAGCCCAAGCCCCTC
ACGGACTCTCAGCGCGTTCGCTTCACCAAGGAGATCAAGGGCCTGAAGGTGGAAGTCACCCA
CTGTGGACAGATGAAGAGGAAGTACCGCGTGTGTAATGTTACCCGTCGCCCTGCTAGCCATC
AGACATTCCCCTTACAGCTGGAGAGTGGACAGACTGTGGAGTGCACAGTGGCACAGTATTTC
AAGCAGAAATATAACCTTCAGCTCAAGTATCCCCATCTGCCCTGCCTACAAGTTGGCCAGGA
ACAAAAGCATACCTACCTTCCCCTAGAGGTCTGTAACATTGTGGCTGGGCAGCGCTGTATTA
AAAAGCTGACCGACAACCAGACCTCGACCATGATAAAGGCCACAGCTAGATCCGCTCCAGAC
AGACAGGAGGAGATCAGTCGCCTGATGAAGAATGCCAGCTACAACTTAGATCCCTACATCCA
GGAATTTGGGATCAAAGTGAAGGATGACATGACGGAGGTGACAGGGCGAGTGCTGCCGGCGC
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ATGCGGGGGAAACAGTTCTACAATGGGATTGAGATCAAAGTCTGGGCCATCGCCTGCTTCGC
ACCCCAAAAACAGTGTCGAGAAGAGGTGCTCAAGAACTTCACAGACCAGCTGCGGAAGATTT
CCAAGGATGCGGGGATGCCTATCCAGGGTCAACCTTGTTTCTGCAAATATGCACAGGGGGCA
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TGTCATCCTGCCAGGGAAGACGCCGGTGTATGCTGAGGTGAAACGTGTCGGAGATACACTCT
TGGGAATGGCTACGCAGTGTGTGCAGGTGAAGAACGTGGTCAAGACCTCACCTCAGACTCTG
TCCAACCTCTGCCTCAAGATCAATGTCAAACTTGGTGGCATTAACAACATCCTAGTCCCACA
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CTGGCCATTCGTGATGCCTGCATCAAACTGGAAAAGGACTACCAGCCTGGGATCACTTATAT
TGTGGTGCAGAAACGCCATCACACCCGCCTTTTCTGTGCTGACAAGAATGAGCGAATTGGGA
AGAGTGGTAACATCCCAGCTGGGACCACAGTGGACACCAACATCACCCACCCATTTGAGTTT
GACTTCTATCTGTGCAGCCACGCAGGCATCCAGGGCACCAGCCGACCATCCCATTACTATGT
TCTTTGGGATGACAACCGTTTCACAGCAGATGAGCTCCAGATCCTGACGTACCAGCTGTGCC
ACACTTACGTACGATGCACACGCTCTGTCTCTATCCCAGCACCTGCCTACTATGCCCGCCTG
GTGGCTTTCCGGGCACGATACCACCTGGTGGACAAGGAGCATGACAGTGGAGAGGGGAGCCA
CATATCGGGGCAGAGCAATGGGCGGGACCCCCAGGCCCTGGCCAAAGCCGTGCAGGTTCACC
AGGATACTCTGCGCACCATGTACTTCGCT

Martinez et al. Figure 16

>eIF2C2, cDNA sequence of predicted ORF
ATGGGTGTTCTCTCTGCCATTCCCGCACTTGCACCTCCTGCGCCGCCGCCCCCATCCAAGG
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AGGCCAATTTCTTCGAAATGGACATCCCCAAAATTGACATCTATCATTATGAATTGGATATC
AAGCCAGAGAAGTGCCCGAGGAGAGTTAACAGGGAAATCGTGGAACACATGGTCCAGCACTT
TAAAACACAGATCTTTGGGGATCGGAAGCCCGTGTTTGACGGCAGGAAGAATCTATACACAG
CCATGCCCCTTCCGATTGGGAGGGACAAGGTGGAGCTGGAGGTCACGCTGCCAGGAGAAGGC
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CGATGCACTTTCAGGGCGGCTGCCCAGCGTCCCTTTTGAGACGATCCAGGCCCTGGACGTGG
TCATGAGGCACTTGCCATCCATGAGGTACACCCCCGTGGGCCGCTCCTTCTTCACCGCGTCC
GAAGGCTGCTCTAACCCTCTTGGCGGGGGCCGAGAAGTGTGGTTTGGCTTCCATCAGTCCGT
CCGGCCTTCTCTCTGGAAAATGATGCTGAATATTGATGTGTCAGCAACAGCGTTTTACAAGG
CACAGCCAGTAATCGAGTTTGTTTGTGAAGTTTTGGATTTTAAAAGTATTGAAGAACAACAA
AAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTAAAGGTCTAAAGGTGGA
GATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGCCCG
CCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCC
CAGTATTTCAAGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGT
CGGACAGGAGCAGAAACACACCTACCTTCCCCTGGAGGTCTGTAACATTGTGGCAGGACAAA
GATGTATTAAAAAATTAACGGACAATCAGACCTCAACCATGATCAGAGCAACTGCTAGGTCG
GCGCCCGATCGGCAAGAAGAGATTAGCAAATTGATGCGAAGTGCAAGTTTCAACACAGATCC
ATACGTCCGTGAATTTGGAATCATGGTCAAAGATGAGATGACAGACGTGACTGGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGC
GTCTGGGACATGCGGAACAAGCAGTTCCACACGGGCATCGAGATCAAGGTGTGGGCCATTGC
GTGCTTCGCCCCCCAGCGCCAGTGCACGGAAGTCCATCTGAAGTCCTTCACAGAGCAGCTCA
GAAAGATCTCGAGAGACGCTGGCATGCCCATCCAGGGCCAGCCGTGCTTCTGCAAATACGCG
CAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATGCGGGCCTGCA
GCTGGTGGTGGTCATCCTGCCCGGCAAGACGCCCGTGTACGCCGAGGTCAAGCGCGTGGGAG
ACACGGTGCTGGGGATGGCCACGCAGTGCGTGCAGATGAAGAACGTGCAGAGGACCACGCCA
CAGACCCTGTCCAACCTTTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCT
GCTGCCCCAGGGCAGGCCGCCGGTGTTCCAGCAGCCCGTCATCTTTCTGGGAGCAGACGTCA
CTCACCCCCCCGCCGGGGATGGAAGAAGCCCTCCATTGCCGCCGTGGTGGGCAGCATGGAC
GCCCACCCCAATCGCTACTGCGCCACCGTGCGCGTGCAGCAGCACCGGCAGGAGATCATACA
AGACCTGGCCGCCATGGTCCGCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGC
CCACCCGCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCAC
CACGAGTTGCTGGCCATCCGTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGGAT
CACCTTCATCGTGGTGCAGAAGAGGCACCACACCCGGCTCTTCTGCACTGACAAGAACGAGC
GGGTTGGGAAAAGTGGAAACATTCCAGCAGGCACGACTGTGGACACGAAAATCACCCACCCC
ACCGAGTTCGACTTCTACCTGTGTAGTCACGCTGGCATCCAGGGGACAAGCAGGCCTTCGCA
CTATCACGTCCTCTGGGACGACAATCGTTTCTCCTCTGATGAGCTGCAGATCCTAACCTACC
AGCTGTGTCACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCCAGCGCCAGCATACTAC
GCTCACCTGGTGGCCTTCCGGGCCAGGTACCACCTGGTGGATAAGGAACATGACAGTGCTGA
AGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAGACCACCAAGCACTGGCCAAGGCGGTCC
AGGTTCACCAAGACACTCTGCGCACCATGTACTTTGCT

Martinez et al. Figure 16

>eIF2C3, cDNA sequence of predicted ORF
AGCCGGAGCCGGGTCCCTGTCCCCGGGCCGGGCGCCGCCGCCGCCCCCTGCCCAGCGCCCGC
GTCTCCGCGGCGCCACCCCAGCGCCAATATTCCGGAGATCAAGCGTTACGCGGCGGCGGCGG
CGGCGGCGGCGGGGCCCGGAGCGGGAGGCGCCGGGGACCGGGGCGAGGCGGCCCCCGCCGCC
GCCATGGAGGCGCTGGGACCCGGACCTCCGGCTAGCCTGTTTCAGCCACCTCGTCGTCCTGG
CCTTGGAACTGTTGGAAAACCAATTCGACTGTTAGCCAATCATTTTCAGGTTCAGATTCCTA
AAATAGATGTGTATCACTATGATGTGGATATTAAGCCTGAAAAACGGCCTCGTAGAGTCAAC
AGGGAGGTAGTAGATACAATGGTGCGGCACTTCAAGATGCAAATATTTGGTGATCGGCAGCC
TGGGTATGATGGCAAAAGAAACATGTACACAGCACATCCACTACCAATTGGACGGGATAGGG
TTGATATGGAGGTGACTCTTCCAGGCGAGGGTAAAGACCAAACATTTAAAGTGTCTGTTCAG
TGGGTGTCAGTTGTGAGCCTTCAGTTGCTTTTAGAAGCTTTGGCTGGGCACTTGAATGAAGT
CCCAGATGACTCAGTACAAGCACTTGATGTTATCACAAGACACCTTCCCTCCATGAGGTACA
CCCCAGTGGGCCGTTCCTTTTTCTCACCCCCGGAAGGTTACTACCACCCTCTGGGAGGGGGC
AGGGAGGTCTGGTTTGGTTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAA
CATTGATGTATCTGCAACTGCTTTCTACCGGGCTCAGCCTATCATTGAGTTCATGTGTGAGG
TTTTAGACATTCAGAACATCAATGAACAGACCAAACCTCTAACAGACTCCCAGCGTGTCAAA
TTTACCAAAGAAATCAGAGGTCTCAAAGTTGAGGTGACCCACTGTGGACAGATGAAACGAAA
ATACCGAGTTTGTAATGTGACTAGACGGCCAGCCAGTCATCAAACTTTTCCTTTGCAGCTAG
AAAACGGTCAAGCTATGGAATGTACAGTAGCTCAATATTTTAAGCAAAAGTATAGTCTGCAA
CTGAAATACCCCCATCTTCCCTGTCTCCAAGTGGGACAAGAACAAAAGCATACATACTTGCC
ACTCGAGGTCTGTAATATAGTGGCAGGACAGCGATGTATCAAGAAGCTCACAGACAATCAGA
CTTCCACAATGATCAAAGCTACAGCAAGATCTGCTCCTGACAGACAGGAAGAGATCAGTAGA
CTGGTGAAGAGCAACAGTATGGTGGGTGGACCTGATCCATACCTTAAAGAATTTGGTATTGT
TGTCCACAATGAAATGACAGAGCTCACAGGCAGGGTACTTCCAGCACCAATGCTGCAATATG
GAGGCCGGAATAAAACAGTAGCCACACCCAACCAGGGTGTCTGGGACATGCGAGGAAAGCAG
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TGCCCATCCAGGGTCAGCCATGTTTCTGCAAGTATGCACAAGGTGCAGACAGTGTGGAGCCT
ATGTTTAAACATCTGAAAATGACTTATGTGGGCCTACAGCTAATAGTGGTTATCCTGCCTGG
AAAGACACCAGTATATGCGGAGGTGAAACGTGTTGGAGATACCCTTCTAGGTATGGCCACAC
AGTGTGTCCAGGTAAAAAATGTAGTGAAGACCTCACCTCAAACCCTTTCCAATCTTTGCCTG
AAGATAAATGCAAAACTTGGAGGAATTAACAATGTGCTTGTGCCTCATCAAAGGCCCTCGGT
GTTCCAGCAGCCTGTCATCTTCCTGGGAGCGGATGTCACACACCCCCCAGCAGGGGATGGGA
AGAAACCTTCCATTGCTGCTGTGGTTGGCAGTATGGATGGCCACCCCAGCCGGTACTGTGCC
ACCGTTCGGGTGCAGACTTCCCGGCAGGAGATCTCCCAAGAGCTCCTCTACAGTCAAGAGGT
CATCCAGGACCTGACTAACATGGTTCGAGAGCTGCTGATTCAGTTCTACAAATCCACACGCT
TCAAACCCACTCGGATCATCTATTACCGTGGAGGGGTATCTGAGGGACAAATGAAACAGGTA
GCTTGGCCAGAACTAATAGCAATTCGAAAGGCATGTATTAGCTTGGAAGAAGATTACCGGCC
AGGAATAACTTATATTGTGGTGCAAAAAAGACATCACACACGACTCTTCTGTGCAGATAAAA
CAGAAAGGGTAGGGAAAAGTGGCAATGTACCAGCAGGCACTACAGTGGATAGTACCATCACA
CATCCATCTGAGTTTGACTTTTACCTCTGTAGTCATGCAGGAATTCAGGGAACCAGCCGTCC
CTCACATTACCAGGTCTTGTGGGATGACAACTGCTTCACTGCAGATGAACTCCAGCTACTGA
CTTACCAGCTGTGTCACACCTATGTGAGGTGCACTCGCTCAGTCTCTATTCCAGCCCCTGCA
TATTATGCCCGGCTTGTAGCATTTAGGGCAAGGTATCATCTGGTGGATAAAGATCATGACAG
TGCGGAAGGCAGTCATGTGTCAGGACAGAGCAACGGCCGGGATCCTCAGGCCTTGGCTAAGG
CTGTGCAAATCCACCATGATACCCAGCACACGATGTATTTTGCC

Martinez et al. Figure 16

>eIF2C4, cDNA sequence of predicted ORF

GCAGGACCCGCTGGGGCCCAGCCCCTACTCATGGTGCCCAGAAGACCTGGCTATGGCACCAT
GGGCAAACCCATTAAACTGCTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCT
ACCTCTATGAGGTAGATATTAAACCAGACAAGTGTCCTAGGAGAGTGAACAGGGAGGTGGTT
GACTCAATGGTTCAGCATTTTAAAGTAACTATATTTGGAGACCGTAGACCAGTTTATGATGG
AAAAAGAAGTCTTTACACCGCCAATCCACTTCCTGTGGCAACTACAGGGGTAGATTTAGACG
TTACTTTACCTGGGGAAGGTGGAAAAGATCGACCTTTCAAGGTGTCAATCAAATTTGTCTCT
CGGGTGAGTTGGCACCTACTGCATGAAGTACTGACAGGACGGACCTTGCCTGAGCCACTGGA
ATTAGACAAGCCAATCAGCACTAACCCTGTCCATGCCGTTGATGTGGTGCTACGACATCTGC
CCTCCATGAAATACACACCTGTGGGGCGTTCATTTTTCTCCGCTCCAGAAGGATATGACCAC
CCTCTGGGAGGGGGCAGGGAAGTGTGGTTTGGATTCCATCAGTCTGTTCGGCCTGCCATGTG
GAAAATGATGCTTAATATCGATGTTTCTGCCACTGCCTTCTACAAAGCACAACCTGTAATTC
AGTTCATGTGTGAAGTTCTTGATATTCATAATATTGATGAGCAACCAAGACCTCTGACTGAT
TCTCATCGGGTAAAATTCACCAAAGAGATAAAAGGTTTGAAGGTTGAAGTGACTCATTGTGG
AACAATGAGACGGAAATACCGTGTTTGTAATGTAACAAGGAGGCCTGCCAGTCATCAAACCT
TTCCTTTACAGTTAGAAAACGGCCAAACTGTGGAGAGAACAGTAGCGCAGTATTTCAGAGAA
AAGTATACTCTTCAGCTGAAGTACCCGCACCTTCCCTGTCTGCAAGTCGGGCAGGAACAGAA
ACACACCTACCTGCCACTAGAAGTCTGTAATATTGTGGCAGGGCAACGATGTATCAAGAAGC
TAACAGACAATCAGACTTCCACTATGATCAAGGCAACAGCAAGATCTGCACCAGATAGACAA
GAGGAAATTAGCAGATTGGTAAGAAGTGCAAATTATGAAACAGATCCATTTGTTCAGGAGTT
TCAATTTAAAGTTCGGGATGAAATGGCTCATGTAACTGGACGCGTACTTCCAGCACCTATGC
TCCAGTATGGAGGACGGAATCGGACAGTAGCAACACCGAGCCATGGAGTATGGGACATGCGA
GGGAAACAATTCCACACAGGAGTTGAAATCAAAATGTGGGCTATCGCTTGTTTTGCCACACA
GAGGCAGTGCAGAGAAGAAATATTGAAGGGTTTCACAGACCAGCTGCGTAAGATTTCTAAGG
ATGCAGGGATGCCCATCCAGGGCCAGCCATGCTTCTGCAAATATGCACAGGGGGCAGACAGC
GTAGAGCCCATGTTCCGGCATCTCAAGAACACATATTCTGGCCTACAGCTTATTATCGTCAT
CCTGCCGGGGAAGACACCAGTGTATGCGGAAGTGAAACGTGTAGGAGACACACTTTTGGGTA
TGGCTACACAATGTGTTCAAGTCAAGAATGTAATAAAAACATCTCCTCAAACTCTGTCAAAC
TTGTGCCTAAAGATAAATGTTAAACTCGGAGGGATCAATAATATTCTTGTACCTCATCAAAG
ACCTTCTGTGTTCCAGCAACCAGTGATCTTTTTGGGAGCCGATGTCACTCATCCACCTGCTG
GTGATGGAAAGAAGCCTTCTATTGCTGCTGTTGTAGGTAGTATGGATGCACACCCAAGCAGA
TACTGTGCCACAGTAAGAGTTCAGAGACCCCGACAGGAGATCATCCAGGACTTGGCCTCCAT
GGTCCGGGAACTTCTTATTCAATTTTATAAGTCAACTCGGTTCAAGCCTACTCGTATCATCT
TTTATCGGGATGGTGTTTCAGAGGGGCAGTTTAGGCAGGTATTATATTATGAACTACTAGCA
ATTCGAGAAGCCTGCATCAGTTTGGAGAAAGACTATCAACCTGGAATAACCTACATTGTAGT
TCAGAAGAGACATCACACTCGATTATTTTGTGCTGATAGGACAGAAAGGGTTGGAAGAAGTG
GCAATATCCCAGCTGGAACAACAGTTGATACAGACATTACACACCCATATGAGTTCGATTTT
TACCTCTGTAGCCATGCTGGAATACAGGGTACCAGTCGTCCTTCACACTATCATGTTTTATG
GGATGATAACTGCTTTACTGCAGATGAACTTCAGCTGCTAACTTACCAGCTCTGCCACACTT
ACGTACGCTGTACACGATCTGTTTCTATACCTGCACCAGCGTATTATGCTCACCTGGTAGCA
TTTAGAGCCAGATATCATCTTGTGGACAAAGAACATGACAGTGCTGAAGGAAGTCACGTTTC
AGGACAAAGCAATGGGCGAGATCCACAAGCTCTTGCCAAGGCTGTACAGATTCACCAAGATA
CCTTACGCACAATGTACTTCGCTTAA

Martinez et al. Figure 16

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>HILI, cDNA sequence of predicted ORF
ATATCTTCTGGTGATGCTGGAAGTACCTTCATGGAAAGAGGTGTGAAAAACAAACAGGACTT
TATGGATTTGAGTATCTGTACCAGAGAAAAATTGGCACATGTGAGAAATTGTAAAACAGGTT
CCAGTGGAATACCTGTGAAACTGGTTACAAACCTCTTTAACTTAGATTTTCCCCAAGACTGG
CAGCTATACCAGTACCATGTGACATATATTCCAGATTTAGCATCTAGAAGGCTGAGAATTGC
TTTACTTTATAGTCATAGTGAACTTTCCAACAAAGCAAAAGCATTCGACGGTGCCATCCTTT
TTCTGTCACAAAAGCTAGAAGAAAAGGTCACAGAGTTGTCAAGTGAAACTCAAAGAGGTGAG
ACTATAAAGATGACTATCACCCTGAAGAGGGAGCTGCCATCAAGTTCTCCCGTGTGCATCCA
GGTCTTCAATATCATCTTCAGAAAGATCCTCAAAAAGTTGTCCATGTACCAAATTGGACGGA
ACTTCTATAATCCTTCAGAGCCAATGGAAATTCCCCAGCACAAATTATCCCTTTGGCCTGGG
TTTGCCATTTCTGTGTCATATTTTGAAAGGAAGCTCCTGTTTAGTGCTGATGTGAGTTACAA
AGTCCTCCGGAATGAGACGGTTCTGGAATTCATGACTGCTCTCTGTCAAAGAACTGGCTTGT
CCTGTTTCACCCAGACGTGTGAGAAGCAGCTAATAGGGCTCATTGTCCTTACAAGATACAAT
AACAGAACCTACTCCATTGATGACATTGACTGGTCAGTGAAGCCCACACACACCTTTCAGAA
GCGGGATGGCACCGAGATCACCTATGTGGATTACTACAAGCAGCAGTATGATATTACTGTAT
CGGACCTGAATCAGCCCATGCTTGTTAGTCTGTTAAAGAAGAGAGAAATGACAACAGTGAG
GCTCAGCTCGCCCACCTGATACCTGAGCTCTGCTTTCTAACAGGGCTGACTGACCAGGCAAC
ATCTGATTTCCAGCTGATGAAGGCTGTGGCTGAAAAGACACGTCTCAGTCCTTCAGGCCGGC
AGCAGCGCCTGGCCAGGCTTGTGGACAACATCCAGAGGAATACCAATGCTCGCTTTGAACTA
GAGACCTGGGGACTGCATTTTGGAAGCCAGATATCTCTGACTGGCCGGATTGTGCCTTCAGA
AAAAATATTAATGCAAGACCACATATGTCAACCTGTGTCTGCTGCTGACTGGTCCAAGGATA
TTCGAACTTGCAAGATTTTAAATGCACAGTCTTTGAATACCTGGTTGATTTTATGTAGCGAC
AGAACTGAATATGTTGCCGAGAGCTTTCTGAACTGCTTGAGAAGAGTTGCAGGTTCCATGGG
ATTTAATGTAATGTGCATTCTGCCTTCTAATCAGAAGACCTATTATGATTCCATTAAAAAAT
ATTTGAGCTCAGACTGCCCAGTCCCAAGCCAATGTGTGCTTGCTCGGACCTTGAATAAACAG
GGCATGATGATGAGTATCGCCACCAAGATCGCTATGCAGATGACTTGCAAGCTCGGAGGCGA
GCTGTGGGCTGTGGAAATACCTTTAAAGTCCCTGATGGTGGTCGGTATTGATGTCTGTAAAG
ATGCACTCAGCAAGGACGTGATGGTTGTTGGATGCGTGGCCAGTGTTAACCCCAGAATCACC
AGGTGGTTTTCCCGCTGTATCCTTCAGAGAACAATGACTGATGTTGCAGATTGCTTGAAAGT
TTTCATGACTGGAGCACTCAACAAATGGTACAAGTACAATCATGATTTGCCAGCACGGATAA
TTGTGTACCGTGCTGGTGTAGGGGATGGTCAGCTGAAAACACTTATTGAATATGAAGTCCCA
CAGCTGCTGAGCAGTGTGGCAGAATCCAGCTCAAATACCAGCTCAAGACTGTCGGTGATTGT
GGTCAGGAAGAAGTGCATGCCACGATTCTTTACCGAAATGAACCGCACTGTACAGAACCCCC
CACTTGGCACTGTTGTGGATTCAGAAGCAACACGTAACGAATGGCAGTATGACTTTTATCTG
ATCAGCCAGGTGGCCTGCCGGGGAACTGTTAGTCCTACCTACTATAATGTCATCTATGATGA
CAACGGCTTGAAGCCCGACCATATGCAGAGACTTACATTCAAATTGTGCCACCTGTACTACA
ACTGGCCGGGCATAGTCAGTGTCCCAGCACCATGTCAGTATGCTCACAAGCTGACCTTTCTG
GTGGCACAAAGCATTCATAAAGAACCCAGTCTGGAATTAGCCAACCATCTCTTCTACCTG
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Martinez et al. Figure 16

>HIWI, cDNA sequence of predicted ORF
ATGACTGGGAGAGCCCGAGCCAGAGCCAGAGGAAGGGCCCGCGGTCAGGAGACAGCGCAGCT
GGTGGGCTCCACTGCCAGTCAGCAACCTGGTTATATTCAGCCTAGGCCTCAGCCGCCACCAG
CAGAGGGGGAATTATTTGGCCGTGGACGGCAGAGAGGAACAGCAGGAGGAACAGCCAAGTCA
CAAGGACTCCAGATATCTGCTGGATTTCAGGAGTTATCGTTAGCAGAGAGAGGAGGTCGTCG
TAGAGATTTTCATGATCTTGGTGTGAATACAAGGCAGAACCTAGACCATGTTAAAGAATCAA
AAACAGGTTCTTCAGGCATTATAGTAAGGTTAAGCACTAACCATTTCCGGCTGACATCCCGT
CCCCAGTGGGCCTTATATCAGTATCACATTGACTATAACCCACTGATGGAAGCCAGAAGACT
CCGTTCAGCTCTTCTTTTTCAACACGAAGATCTAATTGGAAAGTGCCATGCTTTTGATGGAA
CGATATTATTTTTACCTAAAAGACTACAGCAAAAGGTTACTGAAGTTTTTAGTAAGACCCGG
AATGGAGAGGATGTGAGGATAACGATCACTTTAACAAATGAACTTCCACCTACATCACCAAC
TTGTTTGCAGTTCTATAATATTATTTTCAGGAGGCTTTTGAAAATCATGAATTTGCAACAAA
TTGGACGAAATTATTATAACCCAAATGACCCAATTGATATTCCAAGTCACAGGTTGGTGATT
TGGCCTGGCTTCACTACTTCCATCCTTCAGTATGAAAACAGCATCATGCTCTGCACTGACGT
TAGCCATAAAGTCCTTCGAAGTGAGACTGTTTTGGATTTCATGTTCAACTTTTATCATCAGA
CAGAAGAACATAAATTTCAAGAACAAGTTTCCAAAGAACTAATAGGTTTAGTTGTTCTTACC
AAGTATAACAATAAGACATACAGAGTGGATGATATTGACTGGGACCAGAATCCCAAGAGCAC
CTTTAAGAAAGCCGACGGCTCTGAAGTCAGCTTCTTAGAATACTACAGGAAGCAATACAACC
AAGAGATCACCGACTTGAAGCAGCCTGTCTTGGTCAGCCAGCCCAAGAGAAGGCGGGCCCT
GGGGGGACACTGCCAGGGCCTGCCATGCTCATTCCTGAGCTCTGCTATCTTACAGGTCTAAC
TGATAAAATGCGTAATGATTTTAACGTGATGAAAGACTTAGCCGTTCATACAAGACTAACTC
CAGAGCAAAGGCAGCGTGAAGTGGGACGACTCATTGATTACATTCATAAAAACGATAATGTT
CAAAGGGAGCTTCGAGACTGGGGTTTGAGCTTTGATTCCAACTTACTGTCCTTCTCAGGAAG
AATTTTGCAAACAGAAAAGATTCACCAAGGTGGAAAAACATTTGATTACAATCCACAATTTG
CAGATTGGTCCAAAGAAACAAGAGGTGCACCATTAATTAGTGTTAAGCCACTAGATAACTGG
CTGTTGATCTATACGCGAAGAAATTATGAAGCAGCCAATTCATTGATACAAAATCTATTTAA
AGTTACACCAGCCATGGGCATGCAAATGAGAAAAGCAATAATGATTGAAGTGGATGACAGAA
CTGAAGCCTACTTAAGAGTCTTACAGCAAAAGGTCACAGCAGACACCCAGATAGTTGTCTGT
CTGTTGTCAAGTAATCGGAAGGACAAATACGATGCTATTAAAAAATACCTGTGTACAGATTG
CCCTACCCCAAGTCAGTGTGTGGTGGCCCGAACCTTAGGCAAACAGCAAACTGTCATGGCCA
TTGCTACAAAGATTGCCCTACAGATGAACTGCAAGATGGGAGGAGAGCTCTGGAGGGTGGAC
ATCCCCCTGAAGCTCGTGATGATCGTTGGCATCGATTGTTACCATGACATGACAGCTGGGCG
GAGGTCAATCGCAGGATTTGTTGCCAGCATCAATGAAGGGATGACCCGCTGGTTCTCACGCT
GCATATTTCAGGATAGAGGACAGGAGCTGGTAGATGGGCTCAAAGTCTGCCTGCAAGCGGCT
CTGAGGGCTTGGAATAGCTGCAATGAGTACATGCCCAGCCGGATCATCGTGTACCGCGATGG
CGTAGGAGACGGCCAGCTGAAAACACTGGTGAACTACGAAGTGCCACAGTTTTTGGATTGTC
TAAAATCCATTGGTAGAGGTTACAACCCTAGACTAACGGTAATTGTGGTGAAGAAAAGAGTG
AACACCAGATTTTTTGCTCAGTCTGGAGGAAGACTTCAGAATCCACTTCCTGGAACAGTTAT
TGATGTAGAGGTTACCAGACCAGAATGGTATGACTTTTTTATCGTGAGCCAGGCTGTGAGAA
GTGGTAGTGTTTCTCCCACACATTACAATGTCATCTATGACAACAGCGGCCTGAAGCCAGAC
CACATACAGCGCTTGACCTACAAGCTGTGCCACATCTATTACAACTGGCCAGGTGTCATTCG
TGTTCCTGCTCCTTGCCAGTACGCCCACAAGCTGGCTTTTCTTGTTGGCCAGAGTATTCACA
GAGAGCCAAATCTGTCACTGTCAAACCGCCTTTACTACCTC

Martinez et al. Figure 17

A

Gene name	1st primer pair (5'-3')	2nd primer pair (5'-3')	Expected length (bp)
eIF2C1	GAGGTCTGTAACATTGTGGC* CGGTAGAAGATGATGCGGGT	GAGGTCTGTAACATTGTGGC* AAGTTCTTGAGCACCTCTTCTCGA	287
	GAGGTCTGTAACATTGTGGC CGGTAGAAGATGATGCGGGT	CCACACCAGCGCTCTGCC CTCACGCACCATGTAGGA	207
eIF2C2	GAGGTCTGTAACATTGTGGC CGGTAGAAGATGATGCGGGT	ATCCTGCTGCCCCAAGGG GATCTCCTGCCGGTGCTG	186
	GAGGTCTGTAACATTGTGGC* CGGTAGAAGATGATGCGGGT	GAGGTCTGTAACATTGTGGC* GATCTCCTGCCGGTGCTG	891
eIF2C3	AGAGCAACAGTATGGTGGGTGGAC TGGATGTGTGATGGTACT*	CCTCTACAGTCAAGAGGT TGGATGTGTGATGGTACT*	334
	CACTTGAATGAAGTCCCA TCCTGGATGACCTCTTGACTGTAG*	AGAGCAACAGTATGGTGGGTGGAC TCCTGGATGACCTCTTGACTGTAG*	808
eIF2C4	TCCGGCATCTCAAGAACACATATTCT GAACTCATATGGGTGTGTAATGTCTG*	ATCCAGGACTTGGCCTCC GAACTCATATGGGTGTGTAATGTCTG*	324
HILI	CAGCACAAATTATCCCTT* CGGCCTGAAGGACTGAGACGTGT	CAGCACAAATTATCCCTT* GTGTGTGGGCTTCACTGA	264
	TCTCTGTCAAAGAACTGGCTTGTCCT* CTGTACAGTGCGGTTCAT	TCTCTGTCAAAGAACTGGCTTGTCCT* CGGCCTGAAGGACTGAGACGTGT	393

* primers used in both reactions (semi-nested PCR)

B

Gene name	eIF2C1		eIF2C2		eIF2C3		eIF2C4	HILI	
Expected length (bp)	287	207	186	891	808	334	324	264	393
PCR products